



# User Manual

# FERREX<sup>®</sup>

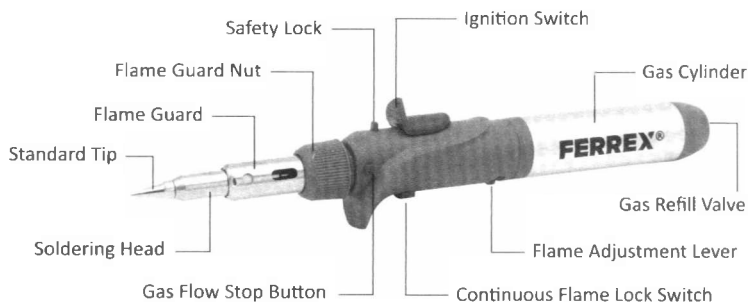
## GAS SOLDERING TORCH KIT



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## Product Components



Reflector



Anvil Tip



Chisel Tip



Needle Tip



Knife Tip



Cleaning Sponge



Solder Dispenser



Protective Cap

## Scope of Delivery

- 1 x Gas Soldering Torch
- 1 x Protective Cap
- 1 x Solder Dispenser
- 1 x Cleaning Sponge
- 5 x Soldering Tips
- 1 x Reflector
- 1 x Instruction Manual
- 1 x Warranty Card

## Unpacking

Due to modern mass production techniques, it is unlikely that your FERREX® Gas Soldering Torch Kit is faulty or that a part is missing. If you find anything wrong, do not operate the Gas Soldering Torch Kit until the parts have been replaced or the fault has been rectified. Failure to do so could result in serious personal injury.

## Intended Use

The Gas Soldering Torch Kit is designed for soft soldering electrical wires and circuit boards, removing or drying paint and forming plastic. It can also be used for shrink fitting and softening or removing adhesive in accordance with the instructions contained in this manual and may not be used for any other purpose.

This product is designed for DIY use only and must not be used for commercial, trade or industrial applications. The tool must only be used for its prescribed purpose. Any use other than those mentioned in this user manual will be considered a case of misuse. The user, and not the manufacturer, shall be liable for any damage or injury resulting from such cases of misuse.

The manufacturer shall not be liable for any unauthorised changes made to the tool, nor for any damage resulting from such changes.

## Description of Symbols

The rating plate on your tool and in this instruction manual may show the following symbols. These represent important information about the product or instructions on its use.



Read and understand instruction manual before using this product.



Wear eye protection.



Wear breathing protection.



Use this appliance in a well-ventilated area.



Contains gas under pressure; may explode if heated or damaged.



Risk of fire!



CAUTION: accessible parts may be very hot. Keep young children away from the appliance.



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.

## Important Safety Instructions



**WARNING!** Read these instructions carefully so as to familiarize yourself with the appliance before filling with butane gas. Keep these instructions for future reference.

- **DANGER! Extremely flammable contents under pressure.**
- **Contains flammable gas under pressure.** Do not expose the appliance to temperatures exceeding 40°C or to prolonged sunlight.
- **Do not** use near spark, open flame, or flammable materials.
- **Do not** puncture or incinerate container or store at temperatures above 40°C.
- **Keep out of the reach of children.**
- **Do not** try to disassemble the appliance.
- **WARNING!** Butane gas is extremely flammable, handle with care.
- **Do not** use an appliance if it is leaking, damaged, or if it does not operate properly.
- **Do not** operate the appliance when you are tired or under the influence of alcohol, drugs, or intoxicating medication.
- **CAUTION!** Refill only in a well-ventilated location, preferably outside, and away from any sources of ignition, such as naked flames, and away from other people and pets.
- **WARNING!** Always wear safety-approved eye and face protection when operating the appliance.
- **CAUTION!** Only use in well-ventilated areas.
- Do not touch the top part of the appliance during or immediately after use, as it will be very hot. Allow the appliance to cool down.
- **WARNING!** If there is a leak on your appliance (smell of gas), take it outside immediately into a well-ventilated flame-free location where the leak may be detected and stopped. If you wish to check for leaks on your appliance, do it outside. Do not try to detect leaks using a flame, instead use soapy water.
- **WARNING!** Store appliance away from direct sunlight in a safe, dry and child-proof location.
- The appliance must not be modified in any way. Factory settings must not be altered. It can be dangerous to modify or adjust the torch, to remove factory fitted parts or to use replacement parts other than those recommended by the manufacturer.
- **Read the refilling instructions before you refill the appliance.** Refilling the appliance incorrectly can lead to accidents and the risk of serious injury.
- **Never** pierce or open the appliance or expose it to fire.
- **To avoid the risk of damage to the appliance, protect the appliance from impact and do not allow it to fall onto the floor.**
- Always work on a non-flammable work surface.
- Work in a well-ventilated area.
- **IGNITE THE TORCH AWAY FROM YOUR FACE, HANDS, CLOTHING OR FLAMMABLE MATERIALS.**
- **EXTINGUISH THE TORCH DURING ANY BREAKS.**
- **Do not** inhale welding or soldering fumes.

- **THE AIR VENTS ON THE CATALYTIC ADAPTER GIVE OFF HOT AIR. DURING SHORT BREAKS AND AFTER USING THE TORCH, TAKE CARE TO PREVENT THE RISK OF BURNING YOUR WORK BENCH SURFACE OR OTHER FLAMMABLE OBJECTS.**
- **DO NOT DIRECT THE HOT AIR FLOW TOWARDS YOUR EYES, FACE, BODY OR OTHER PERSONS.**
- **Be aware that the actual size of the flame can no longer than what it appears to be.**  
The flame may be barely visible in certain light conditions.
- **The burner nozzle and the catalytic adapter become extremely hot during operation and remain so after the torch has been extinguished.** Take care to protect yourself from accidental burns.
- **Ensure that flame is completely extinguished after you turn the torch off.**  
Allow the torch to cool down completely before storage.

## Filling Gas Cylinder



**IMPORTANT!** This torch comes without fuel. Read these instructions carefully to familiarize yourself with the appliance before filling with butane gas. Keep these instructions for future reference.



**IMPORTANT!** Use **HIGH QUALITY BUTANE GAS** (intended for cigarette lighter refills) only. Do not use butane gas which is made for refilling small gas stoves.



**WARNING!** Ensure the appliance is turned **OFF** and the flame is out before you fill the gas cylinder.



**WARNING!** Wait until the burner temperature has cooled down before you fill the gas cylinder.



Refill the tank in a well-ventilated place, in an environment free of flames or sources of ignition, and away from other persons or animals.



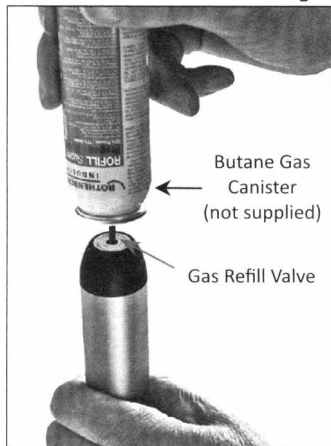
**Smoking is prohibited while you are filling the tank.**

1. Turn off the gas soldering torch and make sure the flame is off.
2. Wait until the gas soldering torch temperature has completely cooled down before refilling with gas.
3. Hold the gas soldering torch in the upside down position (Fig.1).
4. Insert and press down the butane canister nozzle (not supplied) into the gas refill valve (Fig.1). Use short 3 to 5 second bursts with the fuel cylinder.
5. Stop refilling once the gas starts to overflow. The soldering torch should never be completely filled.

**NOTE: Overfilling the tank will cause the flame to spit.**

6. Wait a few minutes before igniting the soldering torch to allow the gas to stabilise.

**Fig.1**

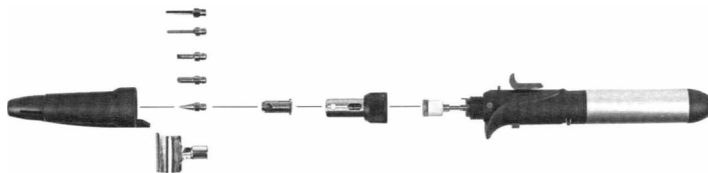


## Fitting the Attachments



Ensure that the torch and accessories have completely cooled down before changing attachments.

The torch is factory fitted with a soldering tip and is ready for use as a soldering iron. The appliance can also be used for various other functions such as a gas torch and a hot air gun.



## Gas Torch Function



Ensure that the torch and accessories have completely cooled down before changing attachments.

The torch can be used as a gas torch (Fig

1. Remove the Soldering Head and any soldering Tips from the appliance.
2. Ensure the Flame Guard is properly and securely attached using the Guard Nut.
4. Follow the steps in "Igniting the Torch" on page 11.
5. Adjust the Flame Adjustment Lever to generate a suitable flame for your requirements.

Fig.2



**WARNING!** Metal attachments get extremely hot during operation.

## Hot Air Gun Function

The hot air gun function is ideal for removing or drying paint and forming plastic. It can also be used for shrink fitting and softening or removing adhesive.



**CAUTION!** Always allow the tool and attachments to completely cool down before you change any accessories.



**CAUTION!** Poisonous fumes may be produced when removing paint. Work only in a well ventilated environment and if necessary wear an approved respirator. If in doubt, consult a specialist.

The torch can be used as a:

1. Unscrew the Flame Guard from the Flame Guard.
2. Fit the Soldering Head i Guard (Fig.3b).
3. Attach the Soldering He assembly onto the tool using the Flame Guard
4. Follow the steps in "Ign page 11.
5. Adjust the Flame Adjustmen generate a suitable tempera requirements.

Fig.3a

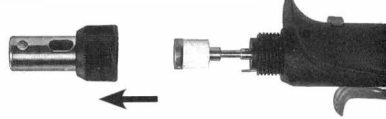
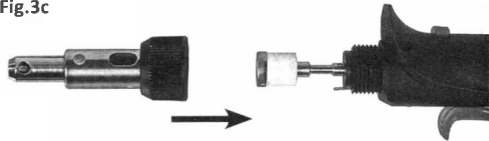


Fig.3b



Fig.3c



**WARNING!** Metal attachments get extremely hot during operation.

## Reflector Function



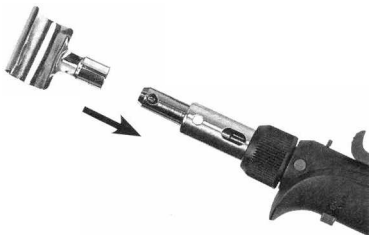
**CAUTION! Never touch the Reflector. Always allow the tool and attachments to completely cool down before you change any accessories.**

The Reflector is ideal for deflecting and concentrating hot air output. It is ideal for household electrical repairs, including shrinking of heat shrink tubing.

The Reflector can be used together with the Hot Air Gun function.

1. Slide the Reflector firmly over the Soldering Head. The Reflector can be rotated once mounted (Fig.4).
2. Follow the steps in "Igniting the Torch" on page 11.
3. Adjust the Flame Adjustment Lever to generate a suitable flame for your requirements.

Fig.4



## Soldering Iron Function



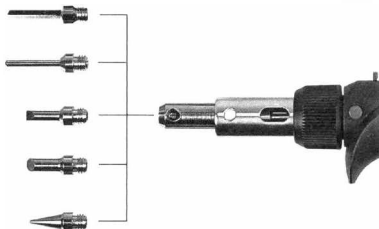
**CAUTION! Always allow the tool and attachments to completely cool down before you change any accessories.**

The Reflector is ideal for deflecting and concentrating hot air output. It is ideal for household electrical repairs, including shrinking of heat shrink tubing.

The torch can be used as a soldering iron using any of the 5 tips included in the kit (Fig.5):

1. Choose the most suitable tip for your application and screw it firmly into the Soldering Head and hand-tighten.
2. Moisten the Cleaning Sponge with water and keep it near you while working. The Soldering Wire can be used for any soldering requirements.
3. Follow the steps in "Igniting the Torch" on page 11.
4. Adjust the Flame Adjustment Lever to generate a suitable flame for your requirements.

Fig.5



## Solder Dispenser

The Solder Dispenser is designed for easier and greater control when soldering (Fig. 6).

The user can pull out the required amount of solder wire and grasp the Solder Dispenser while soldering and applying the solder wire.

**Fig.6**

## Protective Cover



**WARNING!** Allow the torch to completely cool down before changing any accessories.



**WARNING!** The protective cap not be fitted when the flame is



**WARNING!** The metal attachments become extremely hot during operation.

To fit the Protective Cover, firmly slide it onto the torch (Fig.7).

**Fig.7**

## Operation

### Igniting The Torch - Intermittent Operation Mode

1. Hold the torch in the upright position.
2. Push the Safety Lock button down and pull the Ignition Switch to ignite the flame.
3. To extinguish the flame, release the Ignition Switch.

### Igniting The Torch - Continuous Operation Mode

1. Hold the torch in the upright position.
2. Push the Safety Lock button down and pull the Ignition Switch to ignite the flame.
3. While holding down the Ignition Switch, slide the Continuous Flame Lock Switch right to the "CONTINUOUS" position to lock the Ignition Switch.
4. To extinguish the flame, slide the Continuous Flame Lock Switch left to the "OFF" position.

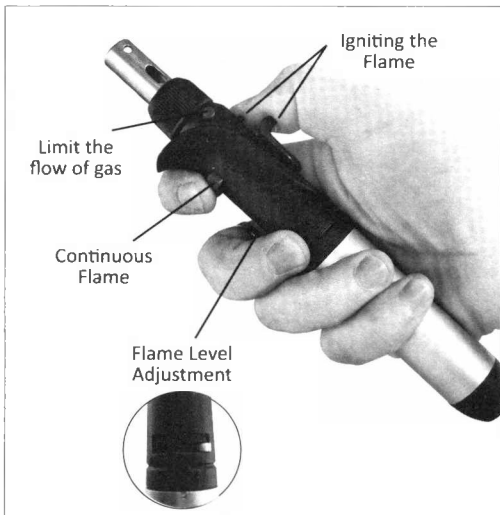
### Flame Level Adjustment

After igniting the torch:

1. Slide the Flame Adjustment Lever to the RIGHT to increase the flame length.
2. Slide the Flame Adjustment Lever to the LEFT to decrease the flame length.

### Limit/Pause the Flame

Press the Gas Flow Stop Button during the "Continuous Operation Mode" to pause the flow of gas. This enables the user to limit the temperature during operation.



## Cleaning



**WARNING!** Allow the torch and accessories to cool down completely before cleaning.

- All exterior surfaces of the torch and tips can be wiped clean with a soft damp cloth.
- Do not immerse or submerge any part of the torch or tips in water or any other solvent.
- Never use solvents such as petrol, alcohol, ammonia water, etc. These solvents may damage the plastic parts of the torch. Do not use metal brushes or sharp objects such as knives, to clean the torch.

## Maintenance

- The torch requires no user serviceable parts inside. Any faulty device should be repaired by an authorised person or the manufacturer only.
- Use only spare parts as recommended by the manufacturer or after sales service.

## Storage and Transportation

- Allow the torch and its accessories to cool down completely before storage/transportation.
- Store and/or transport the torch and its accessories in its original plastic box that it came in or in a similar suitable container.
- Store the torch in a safe, cool, dry and well-ventilated area, out of the reach of children.

## Troubleshooting

| PROBLEM                                                 | POSSIBLE CAUSE                                               | SOLUTION                                                                                  |
|---------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| The torch does not ignite.                              | Gas Cylinder is empty.                                       | Refill the Gas Cylinder with butane gas according to "Filling Gas Cylinder" instructions. |
|                                                         | The flame level may be too low.                              | Slide the Flame Level Adjustment to a higher position.                                    |
| The solder does not run smoothly on the soldering iron. | Gas Cylinder is empty.                                       | Refill the Gas Cylinder with butane gas according to "Filling Gas Cylinder" instructions. |
|                                                         | The flame level may be too low.                              | Slide the Flame Level Adjustment to a higher position.                                    |
| The soldering tip is not hot.                           | Torch has not had sufficient time to warm up.                | Some tips take longer than others to become hot. Please be patient.                       |
| The flame is not visible.                               | The flame itself is visible in the blow torch position only. |                                                                                           |

## Technical Specifications

|                            |                                                     |
|----------------------------|-----------------------------------------------------|
| Model No.:                 | TTA-5272                                            |
| Fuel Type:                 | Butane Gas for Cigarette Lighters<br>(Not Supplied) |
| Microflame Temperature:    | Up to 1300°C                                        |
| Soldering Tip Temperature: | Up to 450°C                                         |
| Hot Blow Temperature:      | Up to 600°C                                         |

## Disposal Instructions



Tools that are no longer usable should not be disposed of with household waste but in an environmentally friendly way. Please recycle where facilities exist in your area. Check with your local council authority for recycling advice.



Dispose of hazardous waste, such as residual oil and petrol, safely. Contact your local council authority for advice on disposal and recycling services.



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## Warranty Details

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